

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,182,525 B2
APPLICATION NO. : 10/676589
DATED : February 27, 2007
INVENTOR(S) : Bergmann et al.

Page 1 of 3

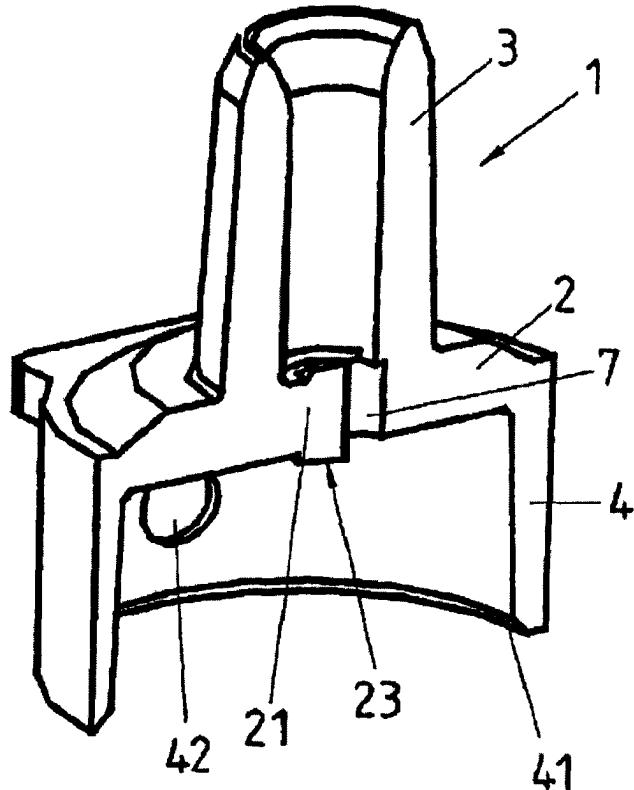
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page showing the illustrative figure should be deleted to be replaced with the attached title page.

The drawing sheet, consisting of Fig. 1, should be deleted to be replaced with the drawing sheet, consisting of Fig. 1, as shown on the attached page.

Drawings

Sheet 1, FIG 1, change the reference to the opening of the coupling unit from "41" to --42--



Signed and Sealed this

Eighth Day of June, 2010

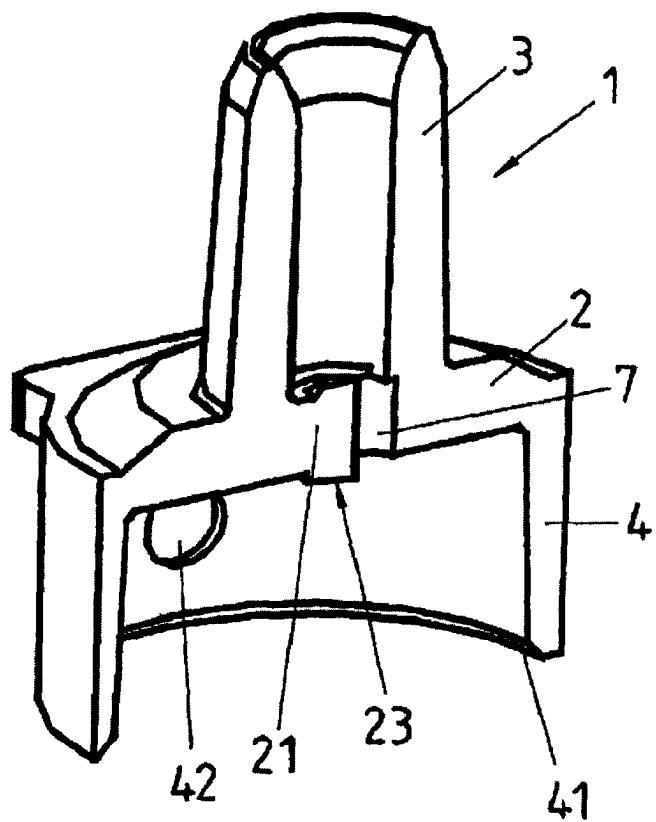
David J. Kappos

David J. Kappos
Director of the United States Patent and Trademark Office

CERTIFICATE OF CORRECTION (continued)
U.S. Pat. No. 7,182,525 B2

Page 2 of 3

Sheet 3, FIG 4, change the reference "41" to --42--



Column 4
Line 6, change "141" to --42--

(12) **United States Patent**
 Bergmann et al.

(10) **Patent No.:** US 7,182,525 B2
 (45) **Date of Patent:** Feb. 27, 2007

(54) **COUPLING UNIT FOR COUPLING AN OPTICAL TRANSMITTING AND/OR RECEIVING MODULE TO AN OPTICAL FIBER**

(75) Inventors: **Frank Bergmann, Berlin (DE); Andreas Stockhaus, Berlin (DE); Michael-Peter Pohnke, Berlin (DE); Andreas Steffensen, Kleinmachnow (DE)**

(73) Assignee: **Finisar Corporation, Sunnyvale, CA (US)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 69 days.

(21) Appl. No.: **10/676,589**

(22) Filed: **Oct. 1, 2003**

(65) **Prior Publication Data**

US 2004/0062492 A1 Apr. 1, 2004

(30) **Foreign Application Priority Data**

Oct. 1, 2002 (DE) 102 46 532

(51) **Int. Cl.**
G02B 6/36 (2006.01)

(52) **U.S. Cl.** 385/88

(58) **Field of Classification Search** 385/53-94
 See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

5,274,723 A *	12/1993	Komatsu	385/92
6,491,447 B2 *	12/2002	Aihara	385/92
6,607,309 B2 *	8/2003	Kuhn et al.	385/93
6,793,406 B1 *	9/2004	Edwards et al.	385/88
6,860,649 B2 *	3/2005	Edwards et al.	385/92
7,036,998 B2 *	5/2006	Tonai et al.	385/88

FOREIGN PATENT DOCUMENTS

DE	33 16 236 A1	8/1984
DE	38 34 394 A1	4/1990
DE	38 34 395 A1	4/1990

* cited by examiner

Primary Examiner—Sung Pak

Assistant Examiner—Tina M. Wong

(74) *Attorney, Agent, or Firm*—Workman Nydegger

(57)

ABSTRACT

The invention relates to a coupling unit for coupling an optical transmitting and/or receiving module to an optical fiber. The coupling unit has a connecting area that can be connected to a transmitting and/or receiving module, and a holding area that holds an optical fiber. A transparent coupling area is provided, which is formed as an integral component of the coupling unit, and via which light can be coupled directly between an optical fiber that is inserted into the holding area and a transmitting and/or receiving module that is coupled directly to it. The coupling area preferably has a matched refractive index. The coupling unit is preferably in the form of an injection-molded part.

18 Claims, 3 Drawing Sheets

